Electronic Acknowledgement Receipt
EFS ID: 5406056
Application Number: 10/826,569
International Application Number:
Confirmation Number: 1009

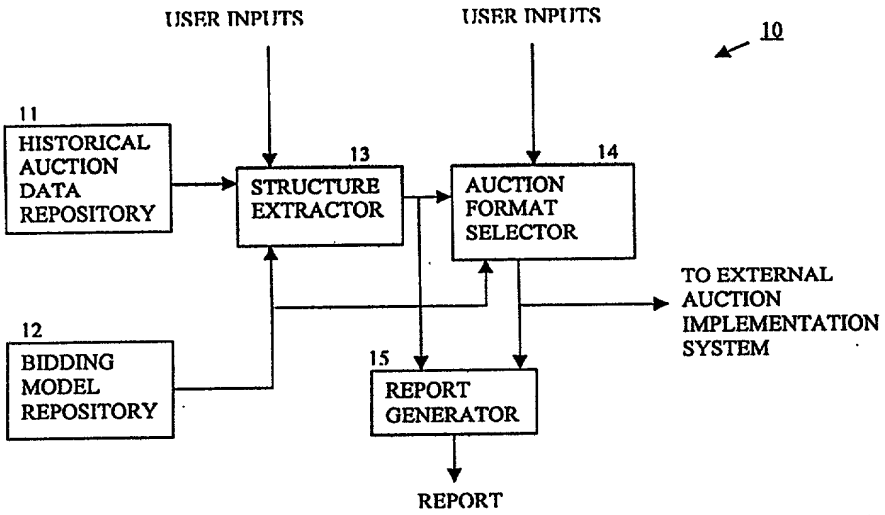

FIGURE 1

09/26/2006, EAST Version: 2.1.0.14

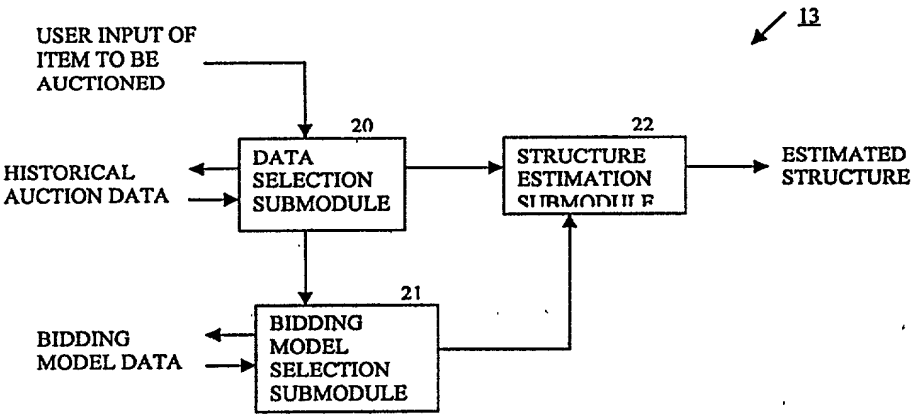

FIGURE 2

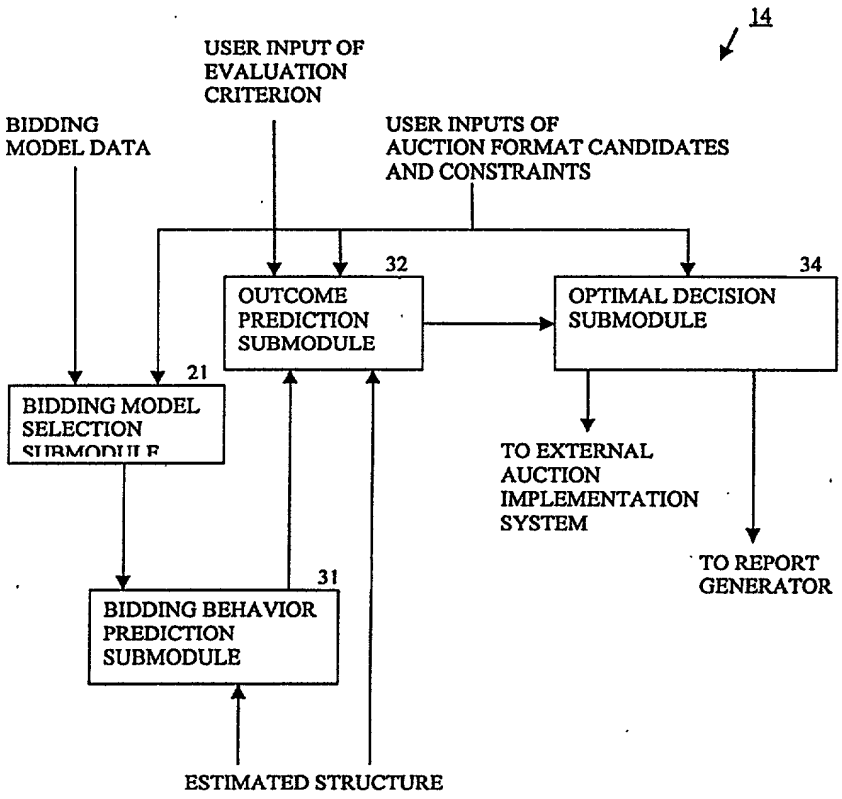
14
USER INPUT OF EVALUATION CRITERION
BIDDING MODEL DATA
USER INPUTS OF AUCTION FORMAT CANDIDATES AND CONSTRAINTS
32
OUTCOME PREDICTION SUBMODULE
34
OPTIMAL DECISION SUBMODULE
21
BIDDING MODEL SELECTION
TO EXTERNAL AUCTION IMPLEMENTATION SYSTEM
TO REPORT GENERATOR
31
BIDDING BEHAVIOR PREDICTION SUBMODULE
ESTIMATED STRUCTURE

FIGURE 3

DATA SELECTION SUBMODULE

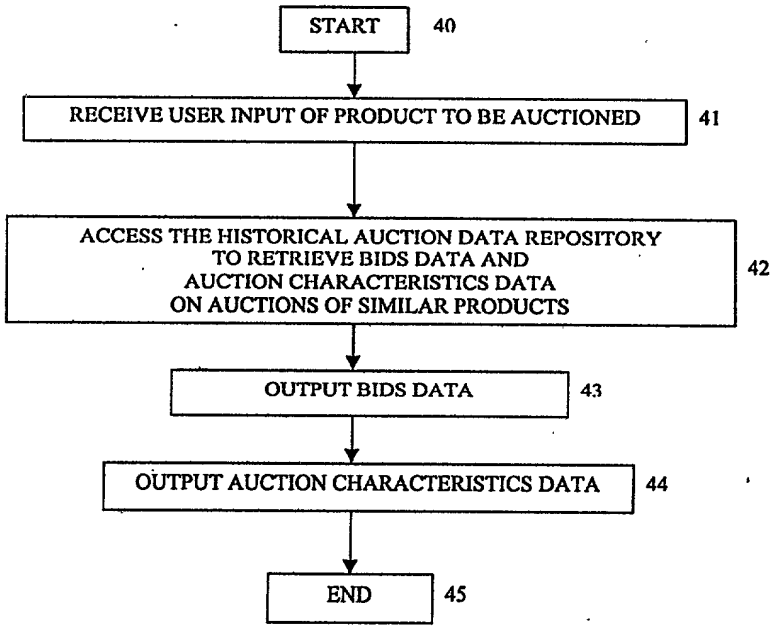

FIGURE 4

BIDDING MODEL SELECTION SUBMODULE

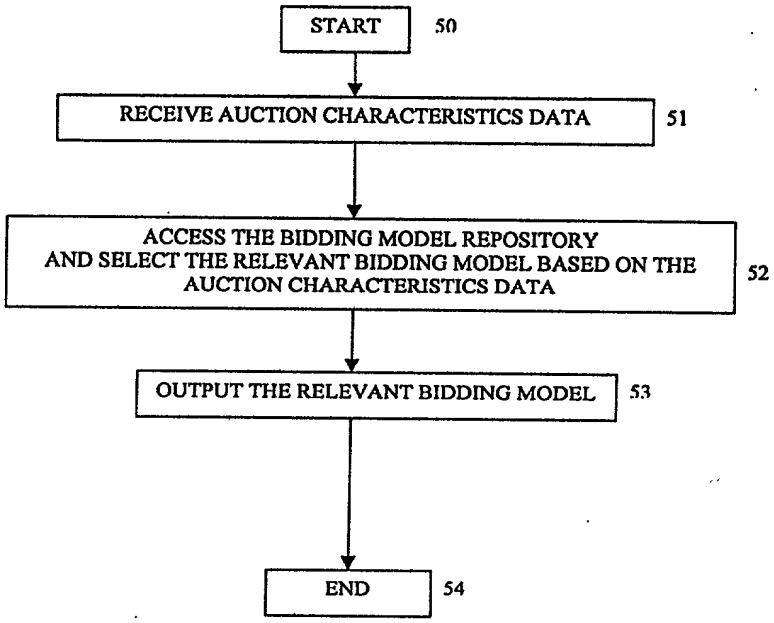

FIGURE 5

STRUCTURE ESTIMATION SUBMODULE

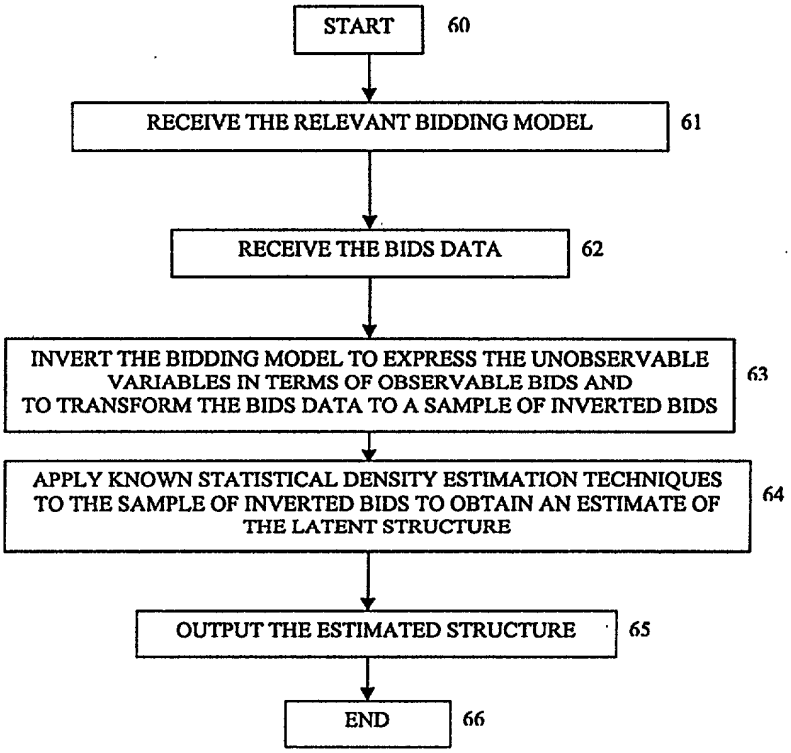

FIGURE 6

BIDDING BEHAVIOR PREDICTION SUBMODULE

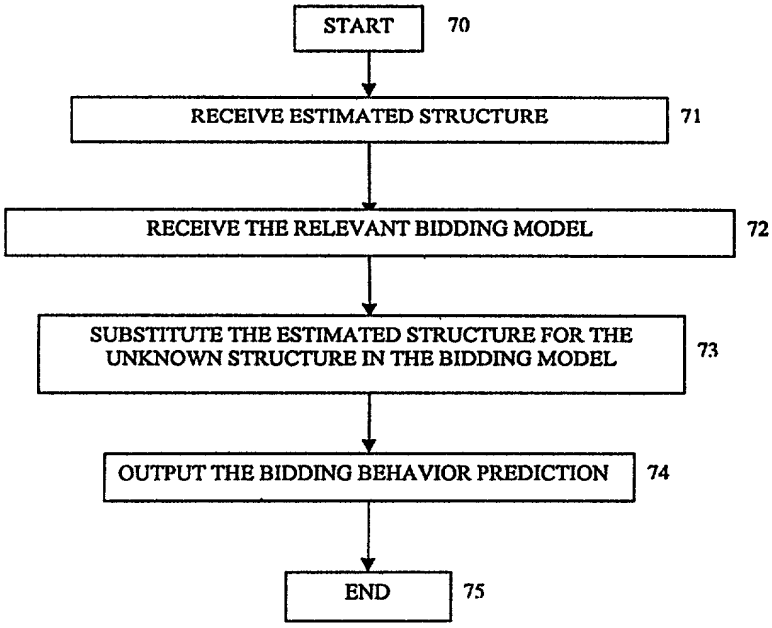

FIGURE 7

2006026504

OUTCOME PREDICTION SUBMODULE

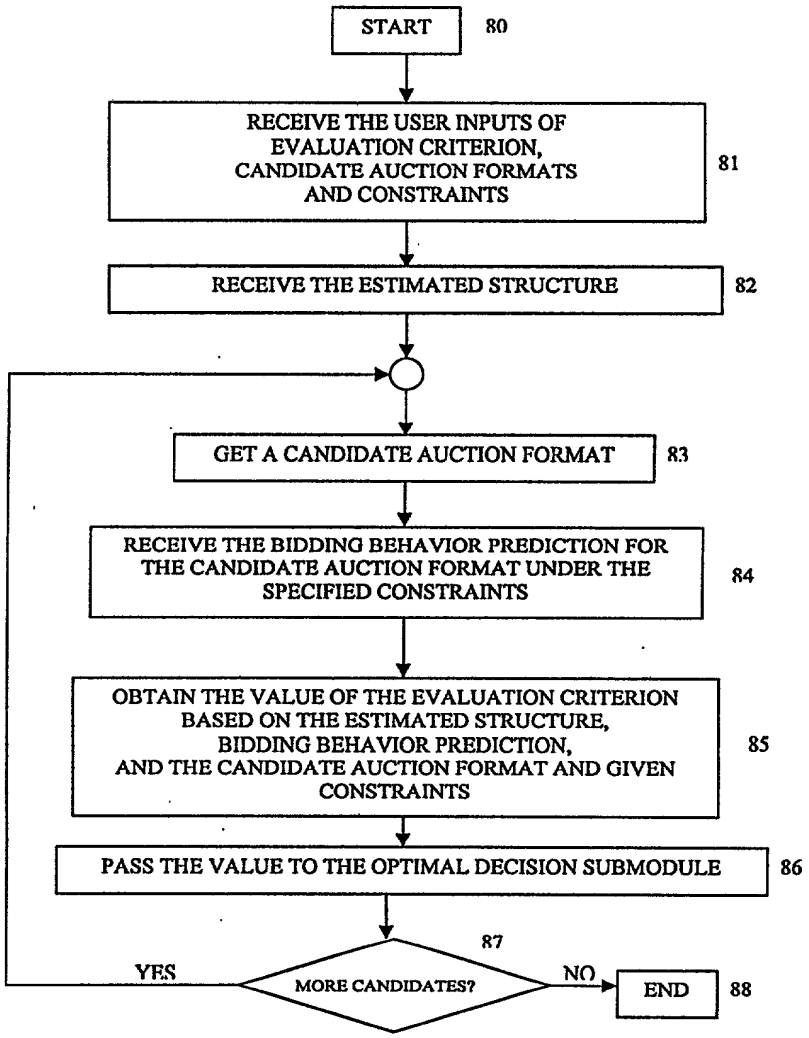

FIGURE 8

OPTIMAL DECISION SUBMODULE

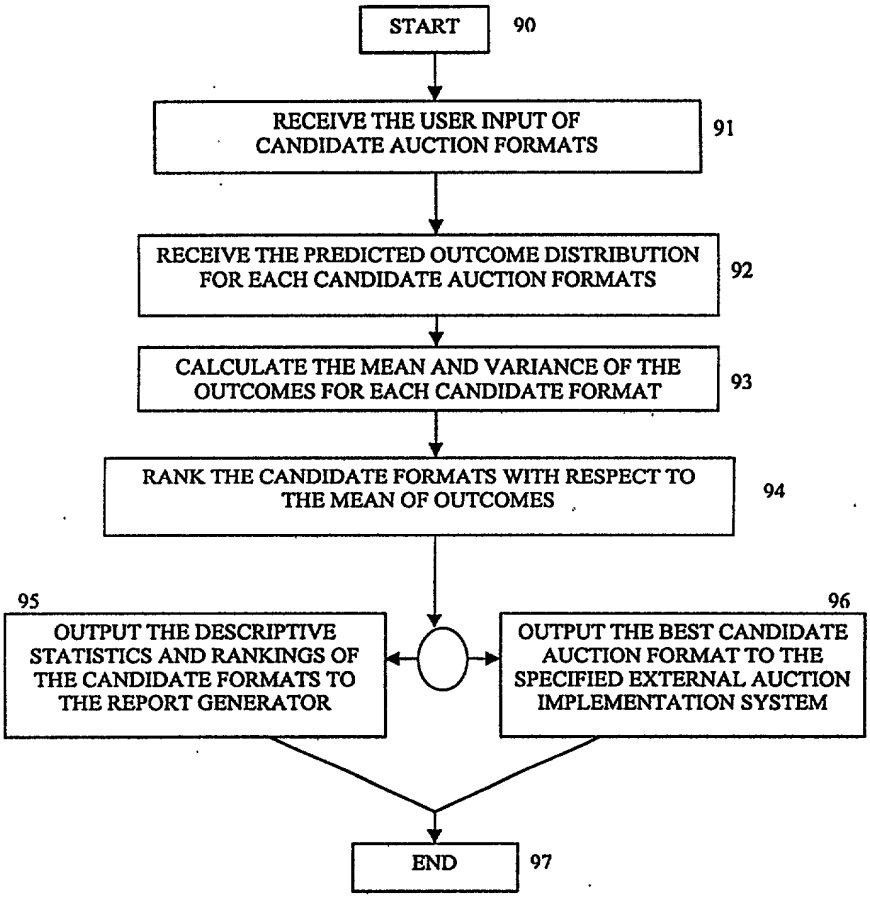

FIGURE 9

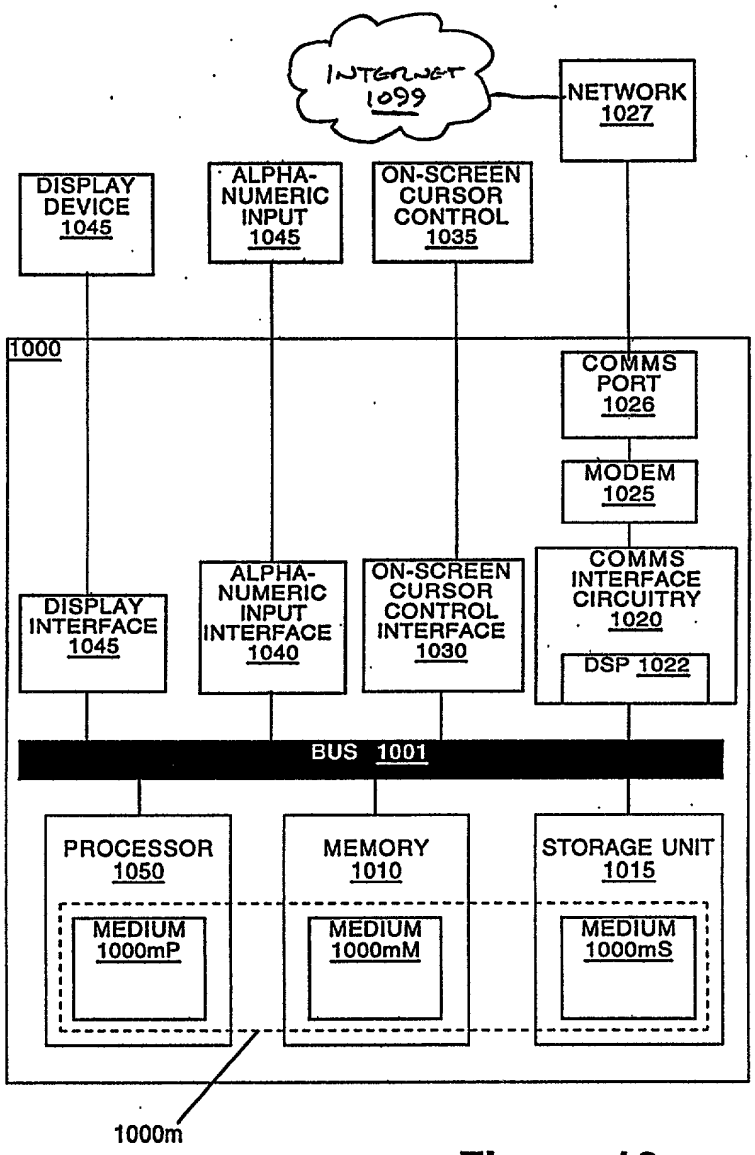
INTERNET
1099
NETWORK
1027
DISPLAY DEVICE
1045
ALPHA-NUMERIC INPUT
1045
ON-SCREEN CURSOR CONTROL
1035
1000
COMMS PORT
1026
MODEM
1025
DISPLAY INTERFACE
1045
ALPHA-NUMERIC INPUT INTERFACE
1040
ON-SCREEN CURSOR CONTROL INTERFACE
1030
COMMS INTERFACE CIRCUITRY
1020
DSP 1022
BUS 1001
PROCESSOR
1050
MEMORY
1010
STORAGE UNIT
1015
MEDIUM
1000mP
MEDIUM
1000mM
MEDIUM
1000mS
1000m

Figure 10

Figure 11a

Historical Auction Data Repository contains data on past auctions. For the purposes of present invention, the following variables are observed for each auction in the database.

Auction:
- Auction ID
- Further Auction Characteristics

Auctioned Item:
- Item ID
- Name
- Quantity
- Description
- Further Item Characteristics

Mechanism:
- Auction Format
- Reserve price
- Further Mechanism Characteristics

Bidders:
- Bidder ID
- Segment ID
- Further Bidder Characteristics

Bids:
- Identities of participating bidders
- Bids submitted by participating bidders

Outcomes:
- Assigned payments for each bidder
- Assigned quantities for each bidder

Electronic Acknowledgement Receipt

Figure 11b

AUCTION CHARACTERISTICS:

- Auction ID
- Item ID
- Item Name
- Quantity
- Dates:
  - Announcement
  - Start
  - Close
- Seller/Buyer ID
- Auction Mechanism Characteristics
- Invited Bidders' IDs
- Participating Bidders' IDs and Bids, Quantities
- Outcome:
  - Assigned Price for each bidder
  - Assigned Quantities for each bidder
- Fees:
  - Shipping & Handling
  - Taxes
  - Auctioneer Fees:
    - Posting Fee
    - Ad Valorem Fee

Electronic Acknowledgement Receipt
EFS ID: 5926
Application No: 09/893,346
International Application No:
Confirmation No: 1
Title of Invention: Method and Apparatus for Conducting Auctions over Communication Networks
First Named Inventor/Applicant Name: Tuomas Sandholm
Customer No: 22918
Filer: Jeffrey Scott Weaver/Jennifer Hayes
Filer Authorized By:
Attorney Docket Number: 1-1-1-1
Receipt Date: 29-JUN-2001
Filing Type: NEW
Time Stamp: 15:29:36
Application Type: Utility
Payment information:
Paid in Full
Total Amount: $1,000.00
Authorized User:
Deposit Account: 22918
Charge Any Additional Fees Required Under 37 C.F.R. 1.16 and 1.17: Yes
RAM confirmation Number: 1
Deposit Account Authorized: Yes
File Listing:
Document Number: 1
Multi Part /.zip: No
Pages: 1
Document Name: Figure 11b
Document Description:
File Size(Bytes): 1
First Page Preview:
Number of Claims: 0
Exclusive Claim Number:
Number of Independent Claims: 0
Application Size: 1
Fee Payment Authorized: Yes
Large Entity: Yes
Number of Total Claims: 0
Number of Additional Claims: 0
Number of Multiple Dependent Claims: 0
Number of Additional Independent Claims: 0
Number of Multiple Dependent Claims: 0
Number of Additional Multiple Dependent Claims: 0
Number of Additional Multiple Dependent Claims: 0
Number of Additional

Figure 11c

BIDS:

- Bid ID
- Auction ID
- Item ID
- Bidder ID
- Bid Time Stamp
- Price Bid
- Bid Type
  - Proxy
  - Direct
- Quantity Desired
- Minimum Quantity
- Currency

DOCUMENT ID: 5

Figure 11d

MECHANISM CHARACTERISTICS:

- Format
  - English
  - Dutch
  - Sealed Bid First Price
  - Sealed Bid Second Price
  - Vickrey
  - etc
- Buy/Sell
- Entry Rule
  - Open
    - Free
    - Fee
  - Invitation
    - Free
    - Fee
- Reserve Price
  - Secret
  - Open
- Start Price
- Bid Increment
  - Fixed
  - Relative
- Closing Rule
  - Inactivity Time
  - Fixed Closing Time

EBAY-29-05/26/99

Figure 11e

ITEM CHARACTERISTICS:

- Item ID
- Name
- Description
- Location
- SKU
- Manufacturer
- Model Number
- Condition
- Warranty
- Weight
- Weight Unit
- Measurement Unit
- Currency
- List Price
- etc

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Figure 11f

BIDDER CHARACTERISTICS:

- ID
- Segment ID
- Name
- Address
- General Information
- Socio Demographic Information
- Etc

FILE 'HOME' ENTERED AT 09:26:39 ON 26 JUL 2006

Figure 11g

SELLER/BUYER CHARACTERISTICS:

- Seller/Buyer ID
- Name
- Address
- General Information
- Socio Demographic Information
- Etc

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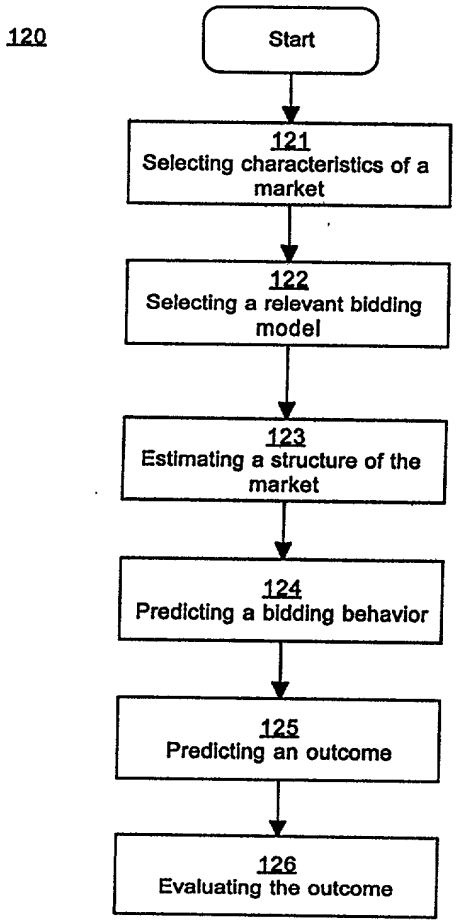
Figure 12


120
Start
121
Selecting characteristics of a market
122
Selecting a relevant bidding model
123
Estimating a structure of the market
124
Predicting a bidding behavior
125
Predicting an outcome
126
Evaluating the outcome